

The Geology and Structure of the Zeehan Region  
West Tasmania

by

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submitted in fulfilment of the requirements for  
the Degree of

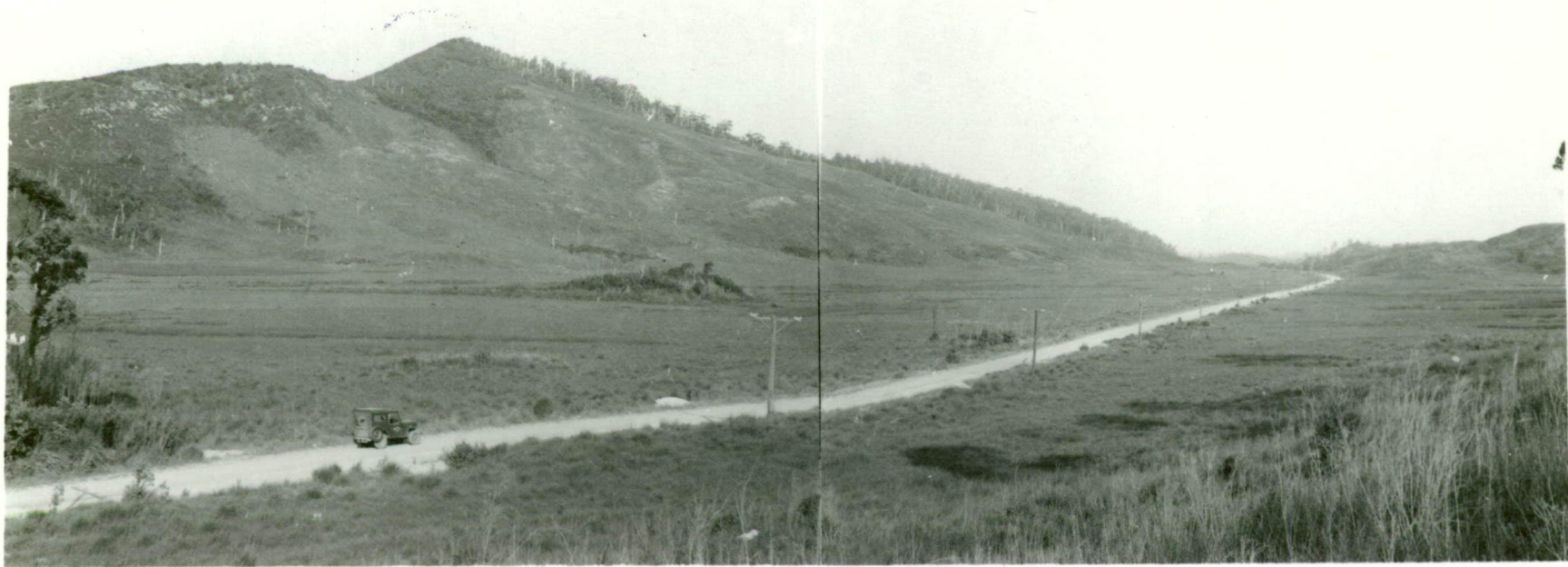
Master of Science

UNIVERSITY OF TASMANIA

HOBART

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Part 2 Illustrations.



**Plate 1.** Misery Hill from north-west.



**Plate 2.** Moina Sandstone — south of Duck Creek.





**Plate 3.** Plunging Anticline in Oonah Quartzite and Slate — Dundas.





**Plates 4 & 5.** Minor Plunging Folds in Florence Quartzite – Duck Creek.





Plates 6 & 7. Cleaved Florence Quartzite - Duck Creek.



**Plate 8.** Pre-Permian Surface at 3000 ft. — Mt. Dundas.





**Plate 9.** Glacial deposits near Henty Bridge.





**Plates 10 & 11.** Henty Surface south-west of Professor Range.

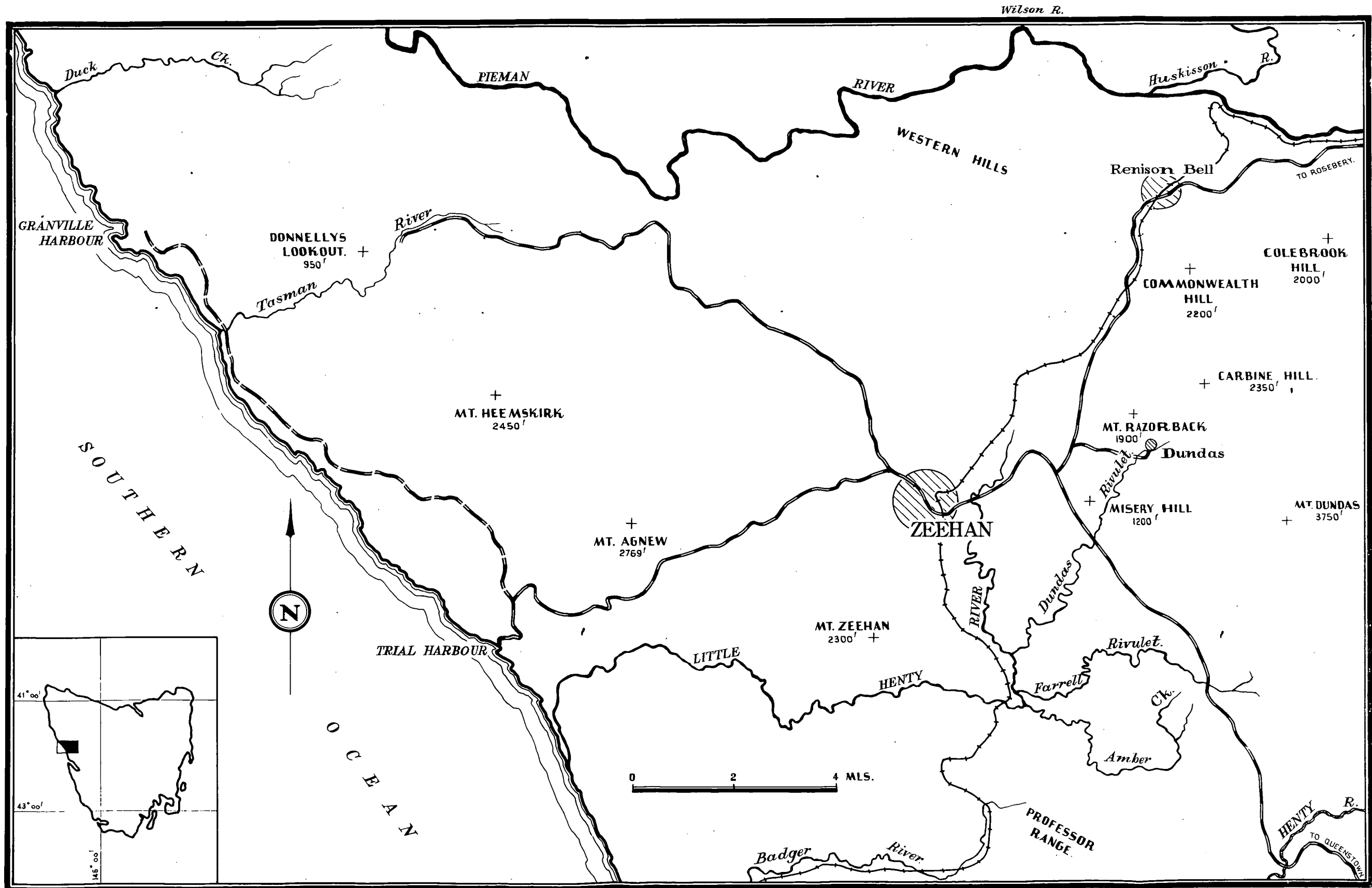
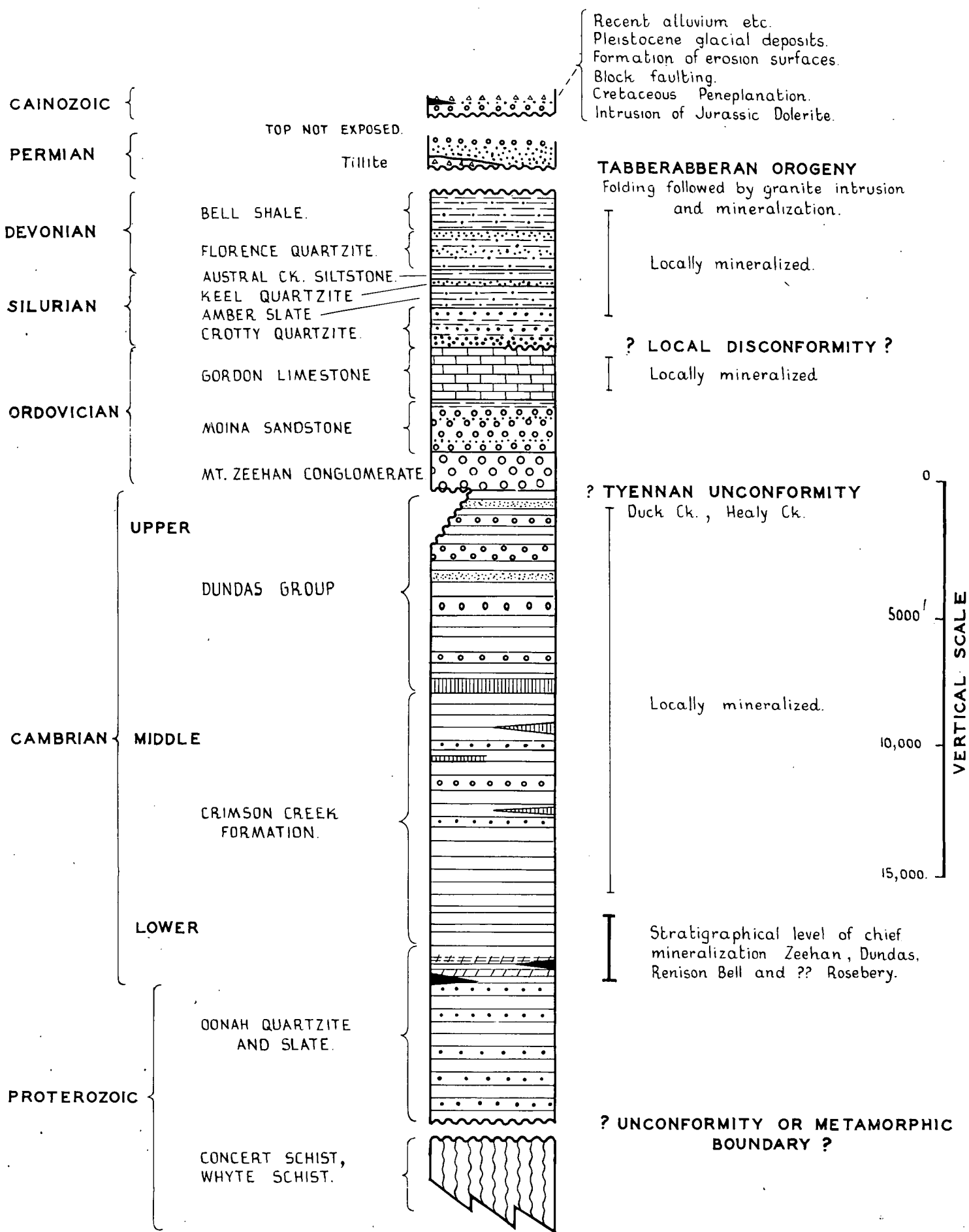


FIG. I LOCALITY MAP



# GENERALIZED STRATIGRAPHICAL COLUMN

## ZEEHAN QUADRANGLE

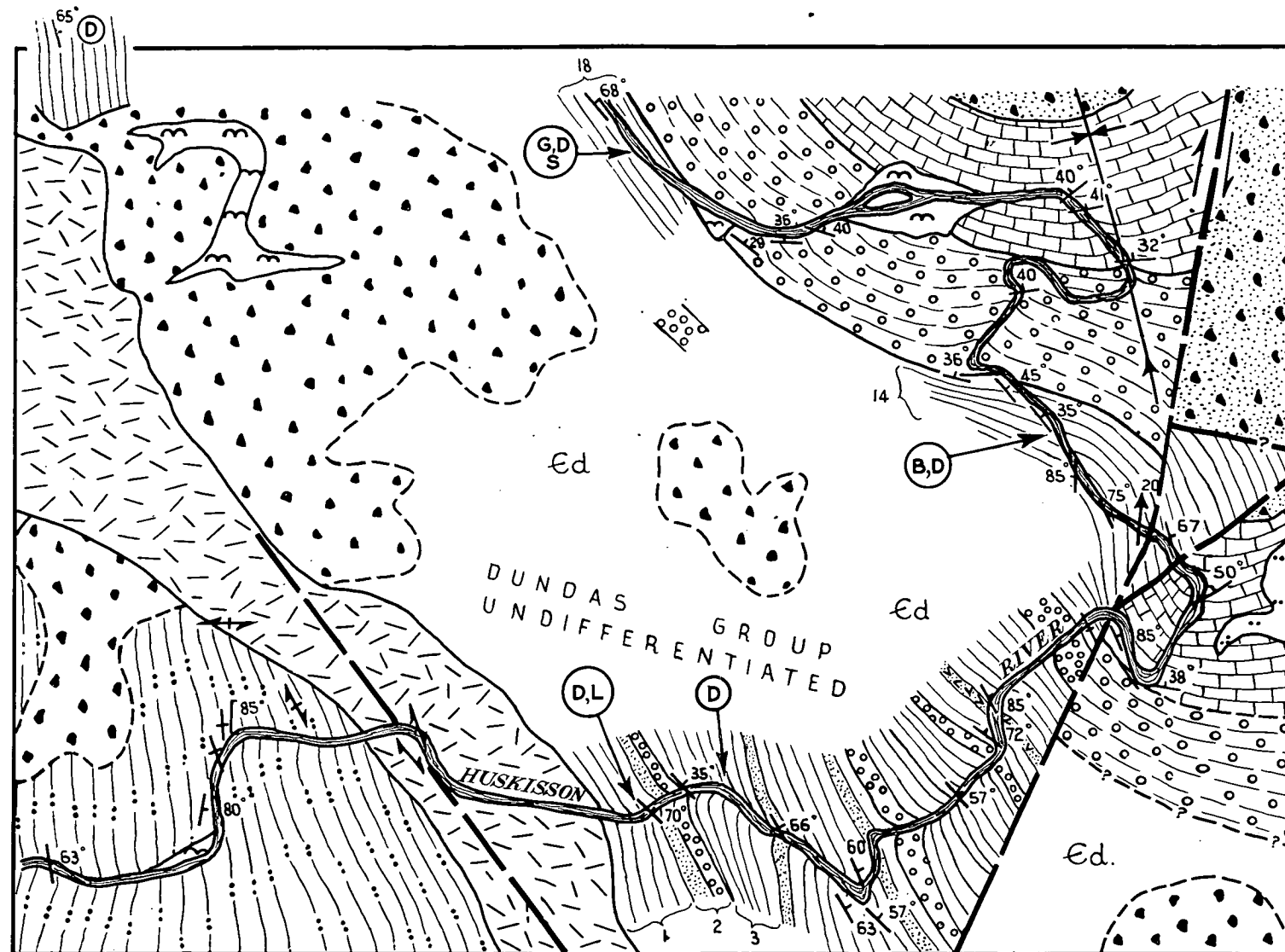


### LEGEND

	RUDACEOUS FORMATIONS.		LIMESTONE.
	ARENACEOUS FORMATIONS.		DOLOMITE & DOLOMITIC MUDSTONE.
	MUDSTONE, SHALE.		ULTRABASIC INTRUSIONS.
	SCHIST.		LAVAS.

(MAXIMUM THICKNESS SHOWN.)

FIG. 2.



## LEGEND

QUATERNARY	{		ALLUVIUM	
			OLDER ALLUVIUM, MARSH DEPOSITS ETC.	
			MORAINE.	
SILURIAN			CROTTY QUARTZITE.	
ORDOVICIAN	{		GORDON LIMESTONE.	
			MT. ZEEHAN CONGLOMERATE.	
CAMBRIAN	{	DUNDAS GROUP		SHALE & SILTSTONE.
				GREYWACKE & SANDSTONE.
		DUNDAS		CONGLOMERATE.
				TUFF.
				SERPENTINITE.
				CRIMSON CREEK FORMATION

	FAULT POSITION APPROX.		FAULT INFERRED.
	60° STRIKE & DIP OF BEDS.		VERTICAL BEDS.
	VERTICAL SHEARING.		80° STRIKE & DIP OF CLEAVAGE

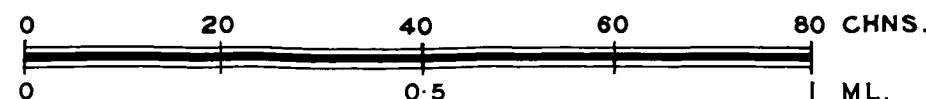
FOSSIL LOCALITIES :-
 B = BRACHIOPODS  
D = DENDROIDS.  
G = *GLYPTAGNOSTUS RETICULATUS*.  
S = SPONGE SPICULES.  
L = LINGULID.

NUMBERS REFER TO FORMATIONS OF TAYLOR (1954).

A. H. BLISSETT.  
SEN. GEOLOGIST 1962

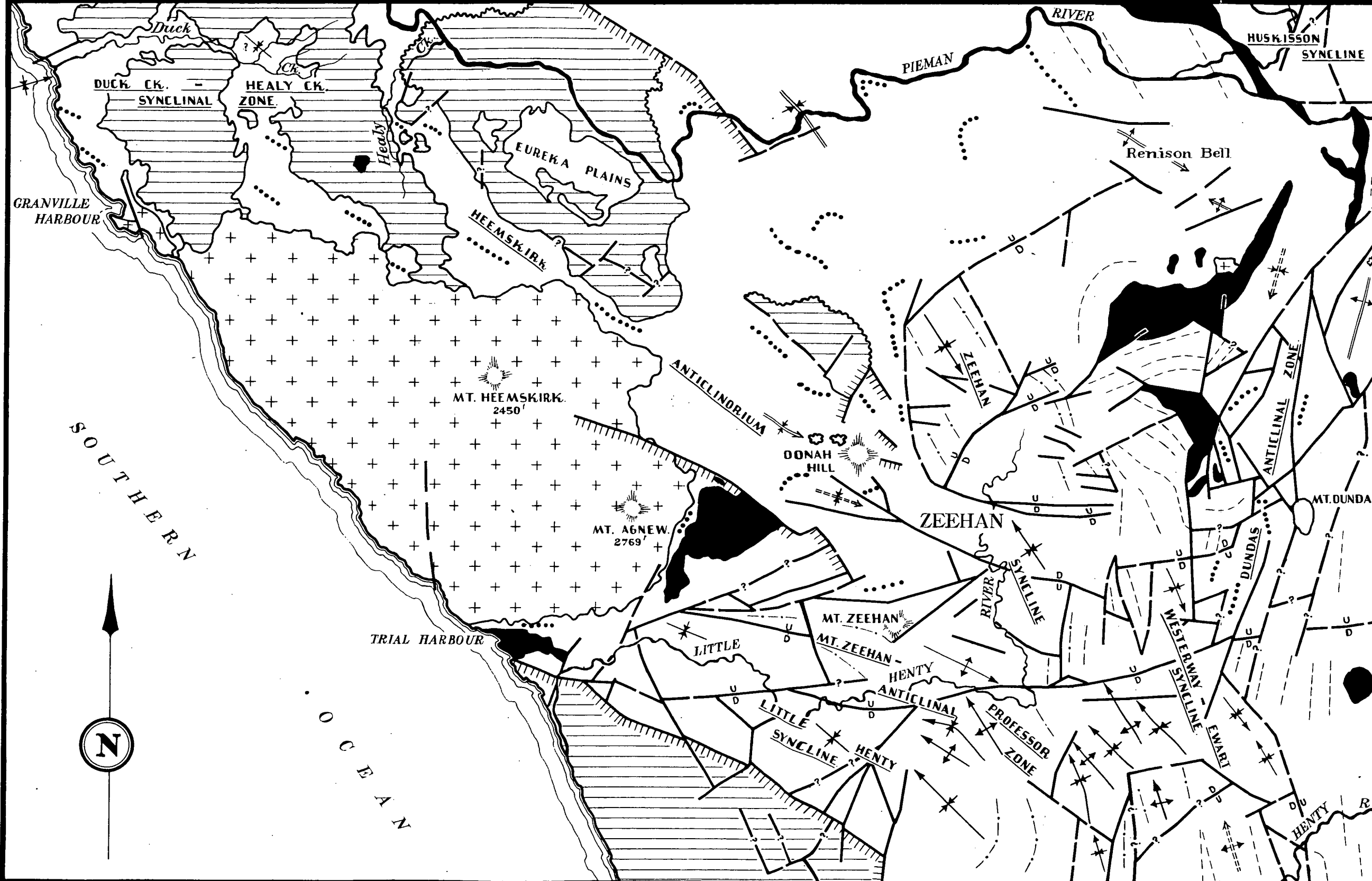
WITH ACKNOWLEDGMENTS TO B. L. TAYLOR & D. BURGER

# DUNDAS GROUP — HUSKISSON RIVER

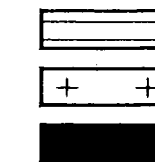








## LEGEND



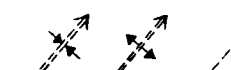
POST-DEVONIAN ROCKS.

DEVONIAN GRANITE.

CAMBRIAN ULTABASICS.



STRUCTURES AND TREND LINES  
IN PROTEROZOIC BEDS.



STRUCTURES AND TREND LINES  
IN CAMBRIAN BEDS.



STRUCTURES AND TREND LINES  
IN ORDOVICIAN-DEVONIAN BEDS.



ANGULAR UNCONFORMITY.



FAULT - POSITION ACCURATE.



- POSITION APPROX.



- INFERRED.



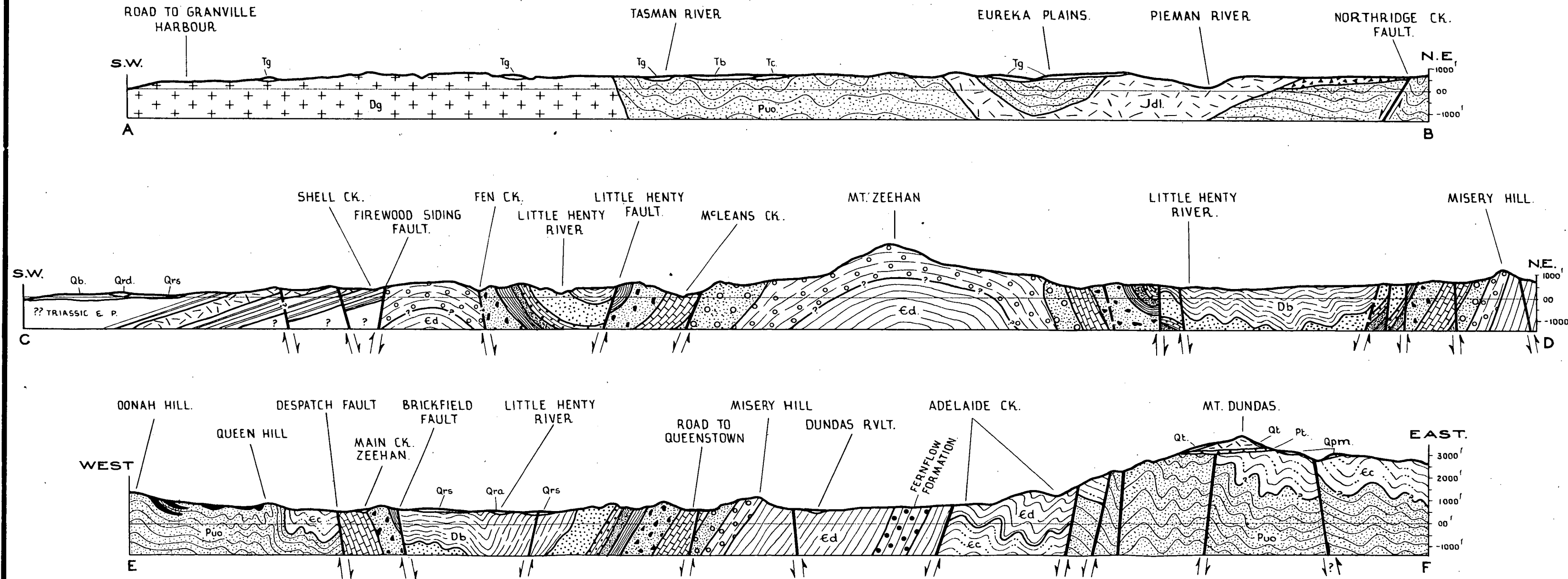
KNOWN OR INFERRED POST -  
PERMIAN FAULTS. (BARS ON  
DOWNTROW)

## STRUCTURAL GEOLOGY — ZEEHAN QUADRANGLE



# GEOLOGICAL SECTIONS- ZEEHAN QUADRANGLE

0 1 2 3 4 M.LS.



## LEGEND

QUATERNARY	Qra.	ALLUVIUM.
	Qrb.	BEACH DEPOSITS.
	Qrd.	SAND DUNES.
	Qt.	DOLERITE TALUS.
	Qrs.	OLDER ALLUVIUM MARSH DEPOSITS ETC.
TERTIARY	Qpm.	MORaine
	Tc.	CONGLOMERATE & GRIT.
PERMIAN	Tg.	GRAVELS.
	P.	MUDSTONES ETC.
DEVONIAN	Pt.	ZEEHAN GLACIAL FORMATION.
	Db.	BELL SHALE
	Df.	FLORENCE QUARTZITE
	Sac.	AUSTRAL CK. SILTSTONE.
SILURIAN	Sk.	KEEL QUARTZITE.
	So.	AMBER SLATE.
ORDOVICIAN	Sc.	CROTTY QUARTZITE.
	Dg.	GORDON LIMESTONE.
	Om.	MOINA SANDSTONE.
	Ed.	MT. ZEEHAN CONGLOMERATE. MISERY CONGLOMERATE.
CAMBRIAN	Ec.	DUNDAS GROUP.
	Puo.	CRIMSON CK. FORMATION.
PRECAMBRIAN		VOLCANICS.
		UPPER PROTEROZOIC.
IGNEOUS ROCKS		
TERTIARY	Tb.	BASALT.
JURASSIC	Jdl.	DOLERITE
DEVONIAN	+ Dg +	GRANITE.

FIG. 8